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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/798,682	03/11/2004	Joel A. Schwartz	10189-002001 6249	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/798,682	SCHWARTZ, JOEL A.				
Office Action Summary	Examiner	Art Unit				
	Branon C. Painter	3633				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirr iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
,	-· action is non-final.					
, <u> </u>		secution as to the merits is				
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) 1-23,32 and 33 is/are pending in the application.						
4a) Of the above claim(s) <u>11,12,32 and 33</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10 and 13-23</u> is/are rejected.						
7) Claim(s) is/are objected to.						
	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
••	_					
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>30 August 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P10-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
· · · · · ·	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prior		d in this National Stage				
• • • • • • • • • • • • • • • • • • • •	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 5) Notice of Informal Patent Application						
) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claims 2-4, 6-7, 14-16, and 18 are rejected under 35 U.S.C. 112, second
 paragraph, as being indefinite for failing to particularly point out and distinctly claim
 the subject matter which applicant regards as the invention.
- 3. Claims 2, 3, 14, and 15 recite the limitations "the floor joists" and "the wood frame construction." There is insufficient antecedent basis for this limitation in the claim. While claim 1 and claim 13 do include the phrases "for use in wood frame construction" and "dimensioned/configured to receive the end of a floor joist," these are considered functional language and as such a wood frame construction and a floor joist are never positively claimed.
- 4. Claims 3, 4, 6, 15, and 16 recite the limitation "the joist header." There is insufficient antecedent basis for this limitation in the claim. While claim 1 and claim 13 do include the phrase "dimensioned/configured to be mounted lengthwise on a joist header," these are considered functional language and as such a joist header is never positively claimed.
- 5. The term "and mixtures thereof" in claims 7 and 18 is a relative term which renders the claim indefinite. It is unclear whether any mixture of any amounts of any or all of the listed materials would meet the claim limitation, or if only select mixtures are being claimed.

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Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-9, 13-20, and 22-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Grinshpun et al. (U.S. Patent No. 6,226,943).
- 8. Regarding claim 1, Grinshpun et al. discloses an insulation panel having all of the applicant's claimed structure, including:
 - a. A single unitary insulation member (foam sheet, Fig. 2A, 2B) including a plurality of slots extending width-wise across the member ("groove" 13, Fig. 2A, 2B; "The foam sheet of the invention may have any suitable number of grooves necessary to accommodate any number of support members," col. 6, lines 35-37; "As depicted, the foam sheet has two sections separated by a single groove. However, it is within the scope of this invention to use a greater number of sections separated by a correspondingly greater number of grooves," col. 4, lines 16-20).
 - b. The member including a wall at the base of each slot having a thickness of at least about 0.375 inch and less than about 1 inch ("The major side of the foam sheet which does not have grooves...preferably has a thickness T...of

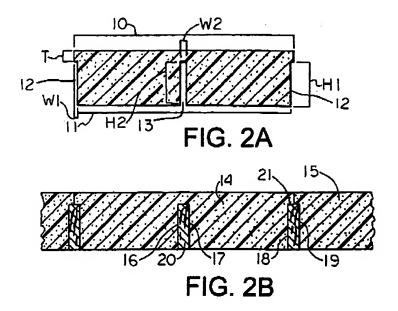
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at least 0.5 inch...and most preferably no greater than 1 inch," col. 6, lines 13-18; Fig. 2A).

- c. The member having a thickness, in regions between the slots, of from about 1 to about 3 inches ("It is preferred that the height of the grooves be at least about 1 inch," col. 3, lines 66-67). The examiner notes that the height refers to H1 and H2 in Fig. 2A.
- d. The examiner notes that phrases such as "dimensioned to be mounted lengthwise on a joist header" and "dimensioned to receive an end of a floor joist" are considered to be functional language and not structural limitations. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

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Reproduced from Grinshpun et al.

- 9. Regarding claim 13, Grinshpun et al. discloses:
 - a. A single unitary insulation member (foam sheet, Fig. 2A, 2B) including a plurality of slots extending width-wise across the member ("groove" 13, Fig. 2A, 2B; "The foam sheet of the invention may have any suitable number of grooves necessary to accommodate any number of support members," col. 6, lines 35-37; "As depicted, the foam sheet has two sections separated by a single groove. However, it is within the scope of this invention to use a greater number of sections separated by a correspondingly greater number of grooves," col. 4, lines 16-20).
 - b. A wood member mounted on the insulating member ("support member" 20,Fig. 2B).
 - c. The examiner notes that phrases such as "configured so that the wood member will function as a joist header in the wood frame construction" and

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"configured to receive an end of a floor joist" are considered to be functional language and not structural limitations. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

- 10. Regarding claims 2, 9, 14, and 20, Grinshpun et al. discloses slots disposed at spaced intervals [clams 2, 14] of 16 inches [claims 9, 20] corresponding to predetermined spacing of the floor joists ("Typically, adjacent support members will be approximately regularly spaced...In the United States, adjacent vertical support members are most typically spaced 16 inches apart on center," col. 2, lines 40-46).
- 11. Regarding claims 3 and 15, Grinshpun et al. discloses a wall, at the base of each slot, sufficiently thick to provide a thermal break between a joist and joist header ("T," Fig. 2A; "The major side of the foam sheet which does not have grooves...preferably has a thickness T...of at least 0.5 inch...and most preferably no greater than 1 inch," col. 6, lines 13-18; Fig. 2A).
- 12. Regarding claims 4 and 16, Grinshpun et al. discloses an insulating member with width substantially equal to the width of a joist header ("support member" 20 and "complimentary groove" 13, Fig. 2A, 2B; "the width of the grooves closely approximates the exact width of the support members," col. 3, lines 8-9).
- 13. Regarding claims 5 and 17, Grinshpun et al. discloses slots extending across the entire width of the insulating member (Fig. 2A, 2B).

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14. Regarding claim 6, Grinshpun et al. discloses a joist header ("support member" 20, Fig. 2B).

- a. The examiner notes that claim 6 is considered to be a product-by-process claim due to the phrase "pre-attached." The patentability of the product does not depend on its method of production. Determination of patentability is based on the product itself. See MPEP 2113. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." *In re Thorpe*, 227 USPQ 964, 966 (Fed. Cir. 1985).
- 15. Regarding claims 7 and 18, Grinshpun et al. discloses an insulating member made of polyurethane ("Examples of polymers which may be used to make a compressible and resilient foam include...polyurethane," col. 5, lines 35-38).
- 16. Regarding claims 8 and 19, Grinshpun et al. discloses slots capable of receiving an end of a wooden I-beam ("grooves" 13, Fig. 2A, 2B). "Grooves" 13 are capable of receiving any wooden I-beam whose top and bottom members were sized to fit in "groove" 13.
 - a. The examiner notes that phrases such as "dimensioned to receive an end of a wood I-beam" are considered to be functional language and not structural limitations. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art.

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If the prior art structure is capable of performing the intended use, then it meets the claim.

- 17. Regarding claim 22, Grinshpun et al. discloses member including a wall at the base of each slot having a thickness of at least 0.375 inch ("The major side of the foam sheet which does not have grooves...preferably has a thickness T...of at least 0.5 inch...and most preferably no greater than 1 inch," col. 6, lines 13-18; Fig. 2A).
- 18. Regarding claim 23, Grinshpun et al. discloses a member having a thickness, in regions between the slots, of from about 1 to 3.5 inches ("It is preferred that the height of the grooves be at least about 1 inch," col. 3, lines 66-67). The examiner notes that the height refers to H1 and H2 in Fig. 2A.

Claim Rejections - 35 USC § 103

- 19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 20. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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- 21. Claims 10 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grinshpun et al. (U.S. Patent No. 6,226,943) in view of Berdan, II (U.S. Patent No. 6,042,911).
 - a. Grinshpun et al. discloses an insulation panel as set forth above.
 - b. Grinshpun et al. does not expressly disclose slots spaced at intervals of about 24 inches.
 - c. Berdan, II discloses slots spaced at intervals of about 24 inches ("most framing has a standard or traditional size of either 16 inches or 24 inches between joists," col. 1, line 67 col. 2, line 2). The spacing of joist-receiving slots as taught by Berdan, II results in industry standard spacing common to the art of wood frame construction.
 - d. Grinshpun et al. and Berdan, II are analogous art because both are from the field of endeavor of building construction.
 - e. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the slots of Grinshpun et al. by spacing the slots 24 inches apart as taught by Berdan, II, in order to abide by industry standards.
 - f. The examiner further notes that it would have been an obvious matter of design choice to modify the slots of Grinshpun et al. by spacing them 24 inches apart, since applicant has not disclosed that this specific spacing solves any stated problem or is for any particular purpose and it appears that

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a spacing of 16 inches as taught by Grinshpun et al. would perform equally well.

Response to Arguments

- 22. Applicant's arguments, see Remarks, filed 09/24/07, with respect to the rejection(s) of claim(s) 13 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Grinshpun et al.
- 23. Applicant's arguments with respect to claims 1-10 and 14-23 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

24. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Branon C. Painter whose telephone number is (571) 270-3110. The examiner can normally be reached on Mon-Fri 7:30AM-5:00PM, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Chilcot can be reached on (571) 272-6777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Branon Painter 12/15/07

RICHARD E. CHILCOT, JR. SUPERVISORY PATENT EXAMINER